

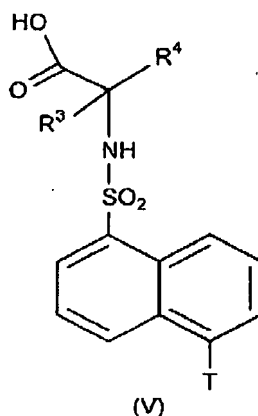
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AMENDMENTS TO THE CLAIMS

Please cancel claims 1-46 and 55-64. Please add new claims 68-75 as follows.

Claims 1-46 (Cancelled)

47. (Currently Amended) A compound represented by a structure as set forth in formula (V):



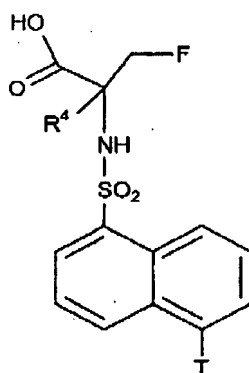
wherein T is -OH, -O-CH₃, -O-(CH₂)_yCH₃, NH₂, N(CH₃)₂, N[(CH₂)₃CH₃]₂, -N(CH₃)[(CH₂)₂CH₃], -N(CH₃)CH₂CH₃ or -N(CH₃) [(CH₂)₃CH₃]; y stands for an integer of 1, 2, or 3;

R³ is hydrogen, (CH₂)_p-OH, (CH₂)_p-SH, (CH₂)_p-F, or a radical of C₁, C₂, C₃, or C₄ carboxylic acid, wherein p is 1, 2, or 3; and

R⁴ is hydrogen, a C₁, C₂, C₃, C₄, C₅ C₆ straight or branched alkyl, a C₁, C₂, C₃, C₄, C₅ C₆ straight or branched hydroxyalkyl or a C₁, C₂, C₃, C₄, C₅ C₆ straight or branched fluoroalkyl.

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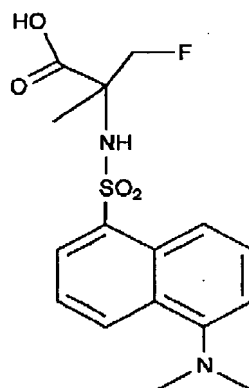
48. (Currently Amended) A compound according to Claim 47, represented by the structure as set forth in formula (VI):



(VI)

wherein T is as defined in Claim 47, and R⁴ is hydrogen or a C₁, C₂, C₃, C₄, C₅ or C₆ straight or branched alkyl, and wherein the F atom is ¹⁸F or ¹⁹F or mixture of fluorine isotopes

49. (Currently Amended) A compound according to Claim 47, represented by the structure as set forth in formula (VII):

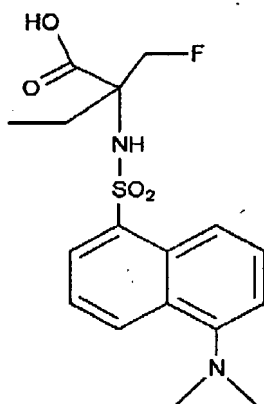


(VII)

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wherein the F atom is ^{18}F or ^{19}F or a mixture of fluorine isotopes.

50. (Currently Amended) A compound according to Claim 47, represented by the structure as set forth in formula (VIII):

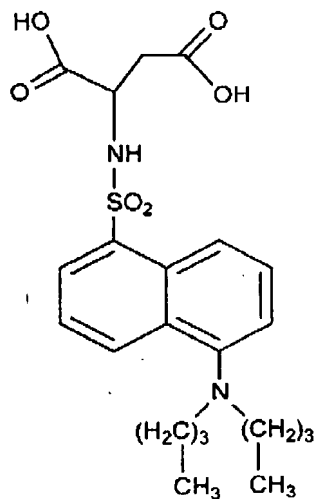


(VIII)

wherein the F atom is ^{18}F or ^{19}F or ~~mixture of fluorine isotope~~ a mixture of fluorine isotopes.

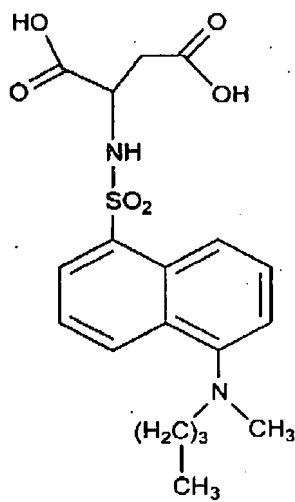
51. (Previously presented) A compound according to Claim 47 represented by the structure as set forth in formula (IX):

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(IX)

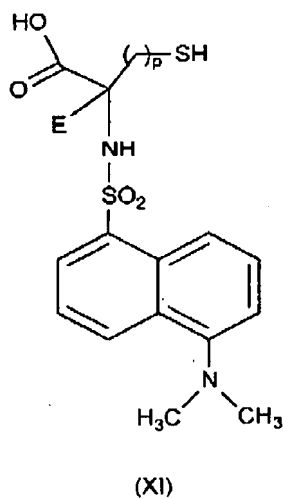
52. (Previously presented) A compound according to Claim 47, represented by the structure as set forth in formula (X):



(X)

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53. (Previously presented) A compound according to Claim 47, represented by the structure as set forth in formula (XI):



wherein E is C₁, C₂, C₃ or C₄ alkyl; C₁, C₂, C₃ or C₄ fluoroalkyl; or C₁, C₂, C₃ or C₄ hydroxyalkyl; p stands for an integer of 1 or 2.

54. (Previously presented) A compound according to Claim 53, wherein p is 1.

55 - 64 (Cancelled)

65. (Previously presented) A compound according to Claim 47 wherein said compound is being linked either directly or through a linker Y to a member selected from a solid support, a marker for imaging or a therapeutic drug, wherein said linker Y is C₁, C₂, C₃, C₄, C₅ or C₆ alkylene, 5-6 atom aromatic or 5-6 heteroaromatic ring, wherein the heteroatom of said heteroaromatic ring is N, O and S, a metal chelator, or combinations thereof.

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66. (Previously presented) An agent for the detection of PNOM-cells, comprising a compound according to claim 47, wherein said compound is linked or comprises a marker for imaging.

67. (Previously presented) An agent according to claim 66 wherein said marker for imaging is detectable by detector of color, fluorescence, X-ray, CT scan, MRI, radio-isotope scan, SPECT, or PET scan.

68. (New) A method for selective targeting of a chemical compound to a cell undergoing perturbation of the normal organization of its plasma membrane (PNOM-cell) present in a cell population, comprising the step of contacting the cell population with a perturbed membrane binding compound (PMBC), being a chemical compound represented by the structure set forth in formula (V) of Claim 47, thereby selectively targeting the chemical compound to the PNOM-cells within the cell population.

69. (New) A method of detecting the presence of PNOM-cells within a cell population selected from: a cell culture, a tissue in a human patient and a tissue in an animal, comprising the steps of:

- (i) administering the cell population with a PMBC, or a conjugate comprising said PMBC and a marker for imaging, wherein said PMBC is represented by the structure set forth in formula (V) of Claim 47; and
- (ii) determining the amount of PMBC bound to cells in the cell population wherein a bound amount which is significantly higher than a control indicates the presence of PNOM-cells within the cell population.

70. (New) A method according to Claim 68, wherein the PNOM-cell is a cell undergoing a death process, an apoptotic cell or an activated platelet.

71. (New) A method for selective targeting of a PNOM-cell present in a cell population, comprising the step of:

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(i) contacting the cell population with a PMBC, or a conjugate comprising said PMBC and a marker for imaging, wherein said PMBC is represented by the structure set forth in formula (V) of Claim 47; and

(II) determining the amount of PMBC bound to cells in said cell population, wherein a bound amount which is significantly higher than a control indicates the presence of said PNOM-cells within the cell population.

72. (New) A method for selective targeting of a chemical compound to a cell undergoing perturbation of the *normal organization* of its plasma membrane (PNOM-cell) present in a cell population, comprising the step of contacting the cell population with a perturbed membrane binding compound (PMBC), being a chemical compound represented by the structure set forth in formula (VIII) of Claim 50, thereby selectively targeting the chemical compound to the PNOM-cells within the cell population.

73. (New) A method of detecting the presence of PNOM-cells within a cell population selected from: a cell culture, a tissue in a human patient and a tissue in an animal, comprising the steps of:

(i) administering the cell population with a PMBC, or a conjugate comprising said PMBC and a marker for imaging, wherein said PMBC is represented by the structure set forth in formula (VIII) of Claim 50; and

(ii) determining the amount of PMBC bound to cells in the cell population wherein a bound amount which is significantly higher than a control indicates the presence of PNOM-cells within the cell population.

74. (New) A method according to Claim 72, wherein the PNOM-cell is a cell undergoing a death process, an apoptotic cell or an activated platelet.

75. (New) A method for selective targeting of a PNOM-cell present in a cell population, comprising the step of:

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(i) contacting the cell population with a PMBC, or a conjugate comprising said PMBC and a marker for imaging, wherein said PMBC is represented by the structure set forth in formula (VIII) of Claim 50; and

(II) determining the amount of PMBC bound to cells in said cell population, wherein a bound amount which is significantly higher than a control indicates the presence of said PNOM-cells within the cell population.